PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference HP197	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No. PCT/JP2003/004069	International filing date (day/ 31 March 2003 (31.0					
International Patent Classification (IPC) or national classification and IPC D02G 3/38						
Applicant	Applicant HIROTA, Yusuke					
This report is the international prelin Authority under Article 35 and trans	ninary examination report, esta	olished by this International Preliminary Examining g to Article 36.				
	This REPORT consists of a total of sheets, including this cover sheet.					
3. This report is also accompanied by A		total of 2 shoots as fallows.				
sheets of the desc and/or sheets cont	a. (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I Basis of the re	Box No. I Basis of the report					
Box No. II Priority						
<u> </u>	-	novelty, inventive step and industrial applicability				
Box No. IV Lack of unity						
	ement under Article 35(2) with xplanations supporting such sta	regard to novelty, inventive step or industrial applicability; tement				
Box No. VI Certain docum	ents cited					
	s in the international application					
Box No. VIII Certain observations on the international application						
Date of submission of the demand		f completion of this report				
30 August 2004 (30.08.	2004)	11 May 2005 (11.05.2005)				
Name and mailing address of the IPEA/JP	Autho	rized officer				
Facsimile No.	Telepl	one No.				

Form PCT/IPEA/409 (cover sheet) (January 2004)

Translation

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP2003/004069

Box No.	·I	Basis of the report	
		to the language, this report is based on the international application in the landicated under this item.	nguage in which it was filed, unless
		report is based on translations from the original language into the following the is language of a translation furnished for the purpose of:	ng language,
Ì		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
furni	shed to	d to the elements of the international application, this report is based on the receiving Office in response to an invitation under Article 14 are referred annexed to this report):	a (replacement sheets which have been red to in this report as "originally filed"
	The i	nternational application as originally filed/furnished	
	the d	escription:	
ļ	page		, as originally filed/furnished
j	pages		
l	pages	received by this Authority on	
	the c	laims:	
1	pages		, as originally filed/furnished
1	pages		gether with any statement) under Article 19
1	pages		
l _	pages	received by this Authority on	
	the d	rawings:	
}	pages		, as originally filed/furnished
	pages	the state of the s	
_	page	* received by this Authority on	
	a seq	uence listing and/or any related table(s) – see Supplemental Box Relating to S	Sequence Listing.
3.	The a	amendments have resulted in the cancellation of:	
		the description, pages	
1	X	the claims, Nos. 11, 12	
	H	the drawings, sheets/figs	
	Ħ	the sequence listing (specify):	
i	H	any table(s) related to sequence listing (specify):	
		any table(s) related to sequence fishing (specify):	
4.	made	report has been established as if (some of) the amendments annexed to this s, since they have been considered to go beyond the disclosure as filed, a 270.2(c)).	report and listed below had not been in sindicated in the Supplemental Box
	닏	the description, pages	
	Ш	the claims, Nos.	
}	\sqcup	the drawings, sheets/figs	
1		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
* If iten	m 4 ap	plies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/04069

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	citations and explanations supporting such statement

statement supporting such statement				
	Statement			
	Novelty (N)	Claims	1-10, 13	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-10, 13	NO
	Industrial applicability (IA)	Claims	1-10, 13	YES
		Claims		NO
<u> </u>				NO

2. Citations and explanations

Document 1: JP 5-179535 A

Document 2: JP 11-1835 A

Claims 1 to 10 and 13

Documents 1 and 2

Document 1 discloses a fiber material comprising a synthetic fiber containing titanium oxide and a natural fiber (claims, paragraph [0011]), and discloses the use of polyester fiber and nylon fiber as the synthetic fiber (paragraph [0011]).

Document 2 discloses a fiber material comprising a natural fiber and a polyester fiber containing titanium oxide (claims, paragraph [0011]).

Documents 1 and 2 do not make any particular disclosures pertaining to the use of silk or animal hair fibers as the natural fiber, but this type of fiber provides the same effect as natural fibers such as cotton, linen, or rayon, and the use thereof is merely a widely implemented feature (if more documentation pertaining to this feature is necessary, see: JP 4-257333 A (claim 3), WO 01/88237 A (claim 4), or JP 2002-275736 A (claim 2)).

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Further, the combination of titanium oxide and silk fiber is a merely a known technique, as the applicant himself notes in the presentation of prior art documents in the background art portion of the description.

Thus, a person skilled in the art could easily conceive of simply using the above two types of fiber—which are merely representative materials, widely used as materials that produce the same effect as natural fibers such as cotton, and which are known in combination with titanium oxide—as the natural fiber in the invention disclosed in documents 1 and 2.

Moreover, even considering the possible effect of selecting the above two fibers, the description cannot be said to provide any disclosure pertaining to the advantages of using the above two fibers. Further, a feature wherein a synthetic fiber is made to contain titanium oxide is disclosed in detail in documents 1 and 2, and as the applicant himself notes, it is known that titanium oxide prevents yellowing, and thus, the invention cannot be considered to produce an exceptional effect.